

## BUFFER

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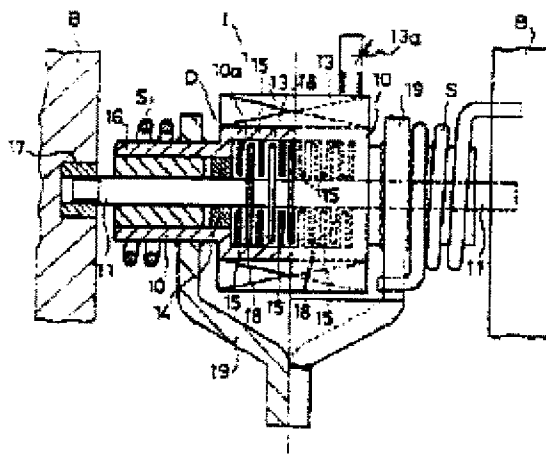
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### Abstract of JP62251220

**PURPOSE:** To make the captioned buffer compact by installing a damper part and a coil spring which form a buffer in a laterally placed condition on a vehicle and lowering a vehicle height while using the fluid resistance of a magnetic fluid for said damper part to obtaining a damping force.

**CONSTITUTION:** When a body B is lowered, a housing 10 having a frame 19 the end of which is connected to a wheel T side, is rotated with respect to a shaft 11 both ends of which are fixed to the body B. And, magnetic pole boards 18 on the shaft 11 side are relatively rotated with respect to magnetic pole boards 15 on the housing 10 side. Accordingly, if a coil 13 is electrified, a magnetic field is generated between both electric pole boards 15, 18, and the viscosity of a magnetic fluid filled in the inner chamber 10a of the housing 10 is increased, suppressing the relative rotation of both the magnetic pole boards 15, 18. On the other hand as the lowering of the body B is ceased, the housing 10 is rotated in the opposite direction with respect to the shaft 11 due to the resiliency of the coil spring S, and the vehicle height is returned to, and kept in, a desired condition.



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